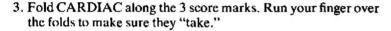
CARDIAC

ASSEMBLY INSTRUCTIONS

- 1. Remove all parts from the die cut sheet. The 5 "bugs" and the 4 input/output cards won't be needed for the assembly and should be set aside for now. Incidentally, 4 of the bugs are spares, as are 2 of the input/output cards.
- Punch out all the die cut holes—including the 100 circular holes in the memory section. Be sure to punch out all 5 windows on the "Op Code" slide.

Holes are black with rounded edges.



Score marks are highlighted with dashed lines.

- 4. Unfold CARDIAC and lay it face down (blank side up) on a clean surface (see Fig. 1). The windows and slots should be on the lower right page. Notice the 4 sets of slots cut into the top and bottom edges of this page. These will accommodate the 4 function slides, which are to be inserted (printed sides down) in the following order:
 - A. Slip the "Op Code" slide into the 3rd pair of slots (top and bottom) from the left (see Fig. 2). This slide must be inserted first.
 - B. Slip the "Address (2)" slide into the 2nd pair of slots from the left.
 - C. Slip the "Address (1)" slide into the 1st pair of slots from the left.
 - D. Slip the "Accumulator Test" slide into the 4th pair of slots from the left.
- 5. Fold the top half of CARDIAC down over the bottom half. Check the slides for free movement and correct position (see Fig. 3). If everything is in order, run a thin bead of glue along the full length of the bottom edge of CARDIAC. Repeat this assembly on left-hand side (back of CARDIAC and memory cells). Be careful not to get any glue on the slides or the slots. Now, fold up the bottom edge and hold, or weight, it until the glue dries. Your CARDIAC should now look like Fig. 4.

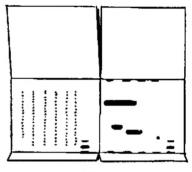


Fig. 1

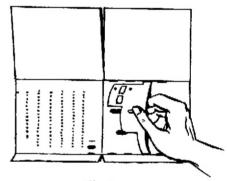


Fig. 2

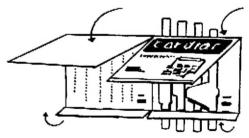


Fig. 3

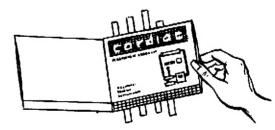


Fig. 4

AA	=	AA	\circ	D	V	С	=	1	1	C
141		/4/	_			_	_	L	_	J

001	85 86 87
	87
02	
10DE 03 20 37 54 71	88
	89
Input Clear and add	90
Add 06 23 40 57 74	91
Test Accumulator contents 75	92
	93
	94
	95
and reset 11 28 45 62 79	96
12 29 46 63	97
13	98
14 31 48 65	99 8
15 32 49 666 83	
16 33 50 67 84	

OUTPUT -

OP CODE

Abbr.

INP

CLA

ADD

TAC

SFT

OUT

STO

SUB

JMP

HRS

Code

0

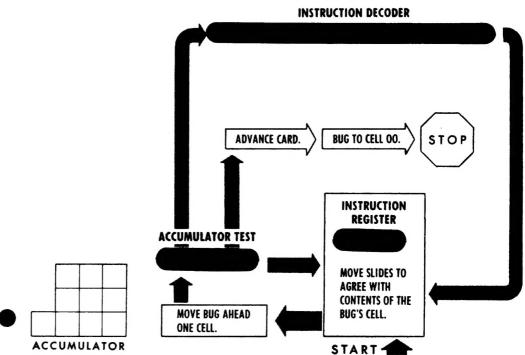
1

2 3

5



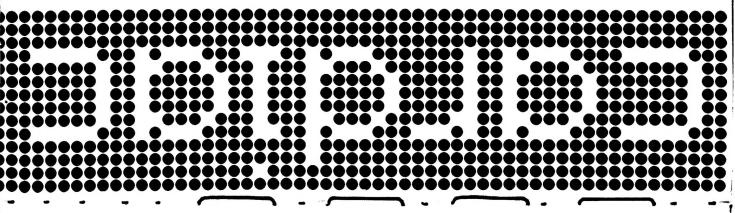
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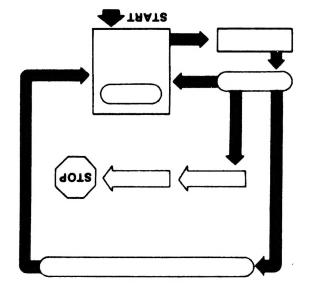


"cardiac" developed by David Hagelbarger

.



A cardboard illustrative aid to computation



Bell System Educational Aid Developed by Bell Telephone Laboratories







